

ABSTRACT

The invention relates to a circuit arrangement for operating at least one light-emitting diode LED in an electrical circuit at a service voltage, which is greater than the forward voltage of the at least one light-emitting diode which is to be operated. In this connection, the light-emitting diode is PWM-controlled.

The circuit comprises reactances that are connected in series at both connections of the light-emitting diode, an additional switching means between the terminals, and a full-wave rectifier circuit, such that the circuit is protected against short-circuits on the service voltage and on ground while the LED can continue to be triggered.

USPS EXPRESS MAIL  
EV 511 024 386 US  
APRIL 22 2005